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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,484	12/26/2000	Hiroyo Masuda	FUJH 18.158	4369

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EXAMINER

DAVIS, TEMICA M

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 04/22/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/749,484

Applicant(s)

MASUDA ET AL.

Examiner

Temica M. Davis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 February 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6,8-11 and 13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10,11 and 13 is/are allowed.
- 6) ☒ Claim(s) 1,2 is/are rejected.
- 7) ☒ Claim(s) 3-6,8 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takubo et al (Takubo), U.S. Patent No. 6,597,909 in view of Shannon et al (Shannon), U.S. Patent No. 6,032,044.

Regarding claim 1, Takubo discloses a radio switching system, comprising: a mobile subscriber (col. 4, lines 6-13); inherently a base station controller for controlling a transmission and reception of a signal from the mobile subscriber within its own cell (col. 1, lines 27-51); a mobile switching center connecting with a plurality of the base station controllers (col. 3, lines 50-61); and a home location register for storing home zone information indicating whether or not the mobile subscriber is a subscriber of a home zone service (col. 4, lines 54-63), wherein the mobile switching center judges responsively to a position

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registration request inside/outside a home zone by the mobile subscriber whether or not the registration is accepted, based on the home zone information transmitted from the home location register (col. 5, lines 6-67).

Takubo, however fails to disclose wherein a home zone service indicated in the HLR restricts a moving area of the mobile subscriber.

In a similar field of endeavor, Shannon discloses a cellular communications system with screening of unauthorized services. Shannon further discloses wherein a home zone service indicated in the HLR restricts a moving area of the mobile subscriber (col. 6, lines 20-41 and col. 7, lines 25-36).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Takubo with the teachings of Shannon for the purpose of ensuring that a user only uses services in which he/she are entitled to (Shannon, col. 6, lines 20-31).

Regarding claim 2, the combination of Takubo and Shannon discloses the radio switching system according to claim 1, wherein each time a radio area is changed by a hand-over, etc. of the mobile subscriber, based on the home zone information, the mobile switching center further performs a processing in response to registration conditions inside/outside the home zone of the mobile subscriber (Takubo, col. 4, line 54-col. 5, line 67).

Allowable Subject Matter

4. Claims 3-6, 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 10, 11 and 13 are allowed.

6. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 10, prior art fails to suggest or render obvious a radio switching system, wherein the mobile switching center has means for counting the number of times of location registration of each area in which the mobile subscriber subscribed in the home zone services performed the location registration within a predetermined period of time, and the location registration area where the number of times of registration counted by the counting means after the predetermined period of time is expired is high is established as a home zone.

Regarding claim 11, prior art fails to suggest or render obvious a radio switching system wherein the mobile switching center has means for counting the number of times of location registration of each area in which the mobile subscriber subscribed in the home zone services performed the location registration within a predetermined period of time, and the location registration area where the number of times of registration counted by the counting means

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after the predetermined period of time is expired is high is established as a home zone.

Regarding claim 13. prior art fails to suggest or render obvious the collection of accounting information in an MSC comprising receiving from a switching center accounting information which the switching center generates based on controlling a hand-over and editing the accounting information based on account conditions in accordance with the hand-over.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The examiner can normally be reached Monday-Friday (alternate Fridays) from 9:00am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Erika Gary can be reached on (703) 308-0123. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temica M. Davis
Examiner
Art Unit 2681

April 17, 2004



TEMICA M. DAVIS
PATENT EXAMINER


ERIKA GARY
PATENT EXAMINER